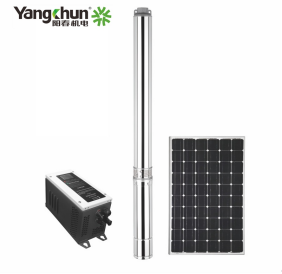
4" DC Solar Water Pump, 16T/h

This 4-inch DC solar water pump is capable of delivering 16 tons of water per hour. It is designed for photovoltaic applications and renewable energy-powered water pumping needs.



ADDITIONAL IMAGES

Overview

High-Efficiency DC Solar Pumping Solution

This 4-inch DC solar water pump is designed for high-capacity water extraction using renewable energy, making it ideal for agricultural irrigation and remote water supply. It features a permanent magnet brushless motor powered directly by a solar PV array, ensuring sustainable operation in off-grid locations. The system includes an advanced controller that optimizes efficiency through sine wave start commutation and automatic voltage adjustment.

Key Performance Metrics

Performance Highlights

16 m³/h	4 inch	3600 r/min
Rated Flow Rate	Pump Diameter	Rated Speed

Technical Models

Detailed performance curves and controller protection functions for the 1500W and 2200W solar pump models.

Model Specifications

Model	Power (kW)	Voltage (VDC)	Max Head (m)	Max Flow (m³/h)
4TY16-19/5-1500W/110V	1.5	110	36	36
4TY16-28/8-2200W/280V	2.2	280	50	36

Intelligent Protection Features

Safety & Protection Systems

- Under-voltage protection to safeguard battery life
- Overvoltage protection for circuit safety
- Water shortage protection (3-minute detection auto-stop)
- Automatic overload protection (2-minute auto-stop)
- Automatic card machine protection with reverse operation
- Automatic high-temperature protection

System Components

Motor Technology	Permanent magnet brushless motor
Controller Technology	Sine wave start commutation with automatic output adjustment

Application Areas

Recommended Use Cases	Agricultural Irrigation, Livestock Watering, Remote Water Supply, Domestic Water Supply, Off-grid Locations

PV Array Configuration

Solar Panel Requirements

- 1500W/110V System: 330W/36V panels (6PCS 2P3S configuration)
- 2200W/280V System: 270W/30V panels (10PCS-S configuration)
- 2200W/280V System Alt: 330W/36V panels (8PCS-S configuration)